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Meanwhile, in other cement plants the actual or average useful life of the refractory is far below the planned period of service.

In the Bryansk plant water leaks into the kiln, the supporting mechanisms and devices stop, and the raw material is inconsistent, thus making it necessary to repair the kilns frequently. (1) The refractory in the Krichevo plant has the shortest useful life in the USSR cement industry, and this is one of the main reasons why this plant has not been fulfilling its production quotas for some time. (2) The useful life of the refractory in the Pikalevo plant is also extremely short. In the Volkovysk plant the average in 1953 dropped almost 1.5 times below that of 1952. The Sengilev plant is another which has been lagging because of the short useful life of its refractory. Frequently the refractory in the kiln lasts no longer than 7 days. (3)

In the Voskresensk plant the kilns are frequently idle because of interruptions in feeding fuel into the kilns and because of the poor quality of the raw material. (2)

The following table gives the useful life of chrome-magnesite refractories for 17 plants. Plants marked with an asterisk were listed in the source as having 150-meter rotary kilns. The kilns of the other plants are assumed to be the same size. ⁷

Useful Life as of 15 Nov 1953

<u>Plant</u>	<u>Planned</u>	<u>Actual, Average</u>	<u>Maximum</u>
Nikolayev* (1)	85	108	108
Belgorod* (1)	85	70	105
Karadag* (1)	85	57	103
Magnitogorsk* (1)	85	35	58
Bryansk* (1)	85	34	58
Novorossiysk "Oktyabr'"* (1)	85	34	54
Vol'sk "Krasnyy Oktyabr'" (2)	130	168	230
Shchurovo (2)	110	156	188
Vol'sk "Bol'shevik" (2)	130	96	235
Voskresensk (2)	90	49	118
Krichevo (2)	85	44	119
Vol'sk "Kommunar" (3)	270	582	606
Sukholozh (3)	120	237	363
Amvrosiyevka (3)	85	179	179
Pikalevo (3)	85	35	65
Sengilev (3)	70	31	49
Volkovysk (3)	100	67	145

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SOURCES

1. Moscow, Promyshlennost' Stroitel'nykh Materialov, 21 Nov 53
2. Ibid., 25 Nov 53
3. Ibid., 13 Nov 53

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